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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,152	03/29/2004	Ga Won Lee	123034-05004767	8475
43569 7.	590 07/31/2006	EXAMINER		
	OWN, ROWE & MA	GURLEY, LYNNE ANN		
1909 K STREET, N.W. WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER
	·		2812	
			DATE MAILED: 07/31/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

····		Anntingsion Ale	A			
-		Application No.	Applicant(s)			
Office Action Commence		10/811,152	LEE, GA WON			
	Office Action Summary	Examiner	Art Unit			
		Lynne A. Gurley	2812			
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address			
A SHO WHIC - Exten after 9 - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DASIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, apply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	the mailing date of this communication.			
Status						
1)⊠	Responsive to communication(s) filed on 15 Ma	av 2006.				
• =	This action is FINAL . 2b) This action is non-final.					
·	,—					
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposiție	on of Claims					
·		dication	,			
 4) ☐ Claim(s) 3,4 and 7-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 						
5) Claim(s) is/are allowed.						
•	6)⊠ Claim(s) <u></u>					
	Claim(s) is/are objected to.	•	1			
•	Claim(s) are subject to restriction and/or	election requirement.				
		·				
_	on Papers					
•	The specification is objected to by the Examine					
10)⊠ The drawing(s) filed on <u>15 May 2006</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
•		armior. Note the attached emoc	7.00.017.017.017.17.0.102.			
	nder 35 U.S.C. § 119					
_	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
	·	*	ed in this National Stage			
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
	LYNNE A. GURLEY PRIMARY PATENT EXAMINER 2813					
	•	PR	TC 2800, AU 2812			
Attachment	• •					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Ll Interview Summary Paper No(s)/Mail Da				
3) Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date		atent Application (PTO-152)			

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DETAILED ACTION

This Office Action is in response to the preliminary amendment filed 5/15/06.

Currently, claims 3-4, 7-8 and 9-16 (new) are pending.

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file 10/028,972.

Drawings

2. The drawings were received on 5/15/06. These drawings are approved by the Examiner.

Specification

3. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

⁽e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this

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subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 2. Claims 7-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Park et al. (US 6,753,252, dated 6/22/04, filed 5/18/01).
- 3. Park shows the method as claimed in figures 1,3-5, and 7-8 as: forming conductive layer patterns (bitlines or wordlines 12) and an insulating film spacer 26 (fig. 1) on a sidewall of the conductive layer patterns through a common process; burying a conductive material 42 between the conductive layer patterns; removing the conductive material at a removal region (fig 7) such that the conductive material remains at remaining regions to form a contact plug 50 (fig. 7-8); and burying an interlayer dielectric film 52 between the conductive layer patterns at the removal region.
- 4. Claims 3-4 and 7-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Park et al. (US 6,387,759, dated 5/14/02, filed 4/27/99).
- 5. Park shows the method as claimed in figures 9A-9E as: forming a conductive layer (bitlines or wordlines 206) pattern and an insulating film spacer 212/224 on a sidewall of the conductive layer pattern through a common process; removing the insulating film spacer in a region other than a contact plug formation region (fig. 9D right side of figure); and forming an interlayer dielectric film on an entire surface of the semiconductor device (fig. 9E).

Park also shows the method as claimed in figures 7A-7D, and 9A-E as: forming conductive layer patterns (bitlines or wordlines 206) and an insulating film spacer 212 (fig. 7B) on a sidewall of the conductive layer patterns through a common process; burying a conductive material 214 between the conductive layer patterns; removing the conductive material at a removal region (fig 7C-7D) such that the conductive material remains at remaining regions to

form a contact plug 216/218 (fig. 7D); and burying an interlayer dielectric film 219 (fig. 7D) between the conductive layer patterns at the removal region.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See the previously cited PTO Form 892.
- 7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynne A. Gurley whose telephone number is 571-272-1670. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lynne A. Gurley

Primary Patent Examiner

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LAG July 24, 2006